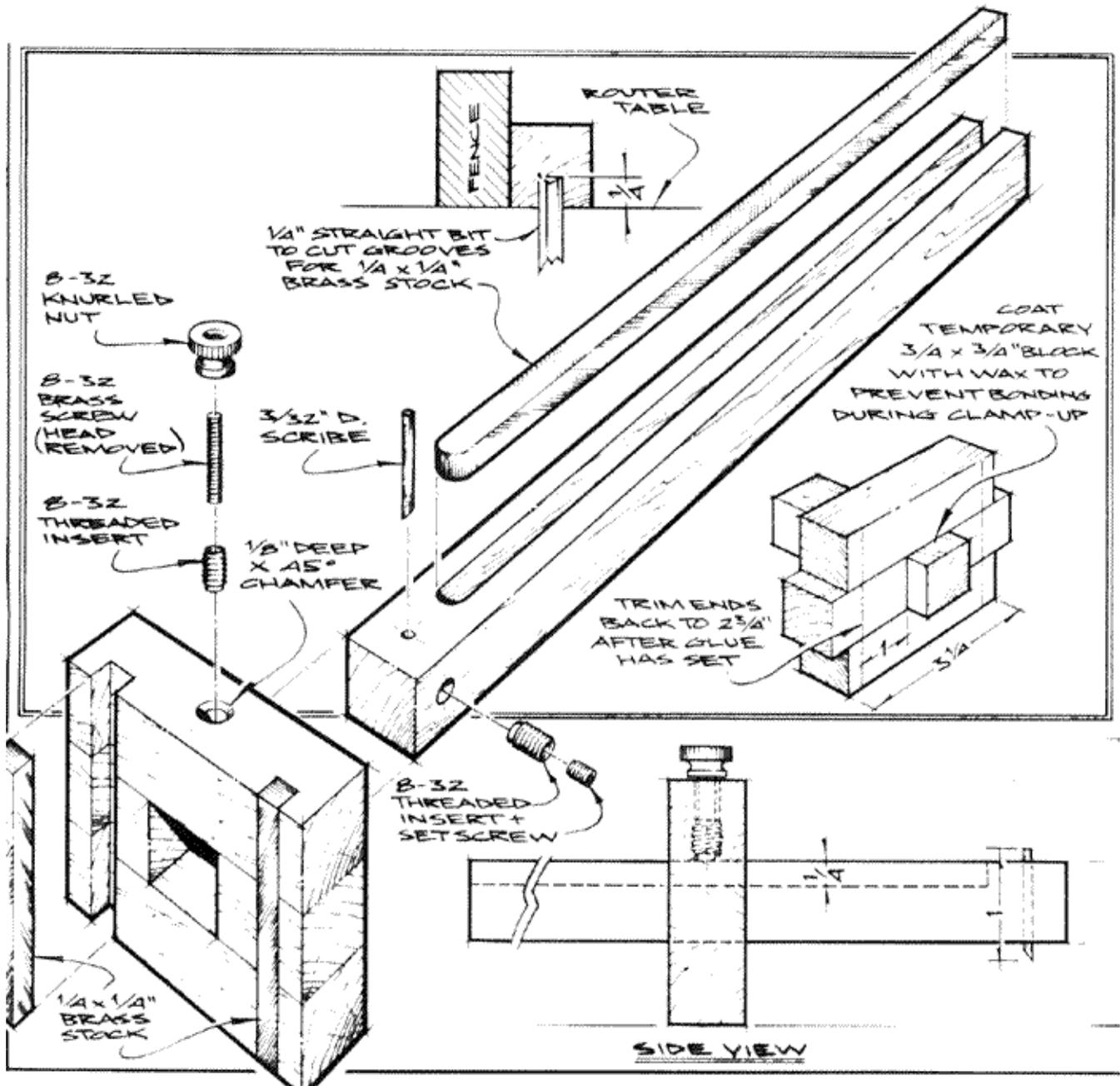
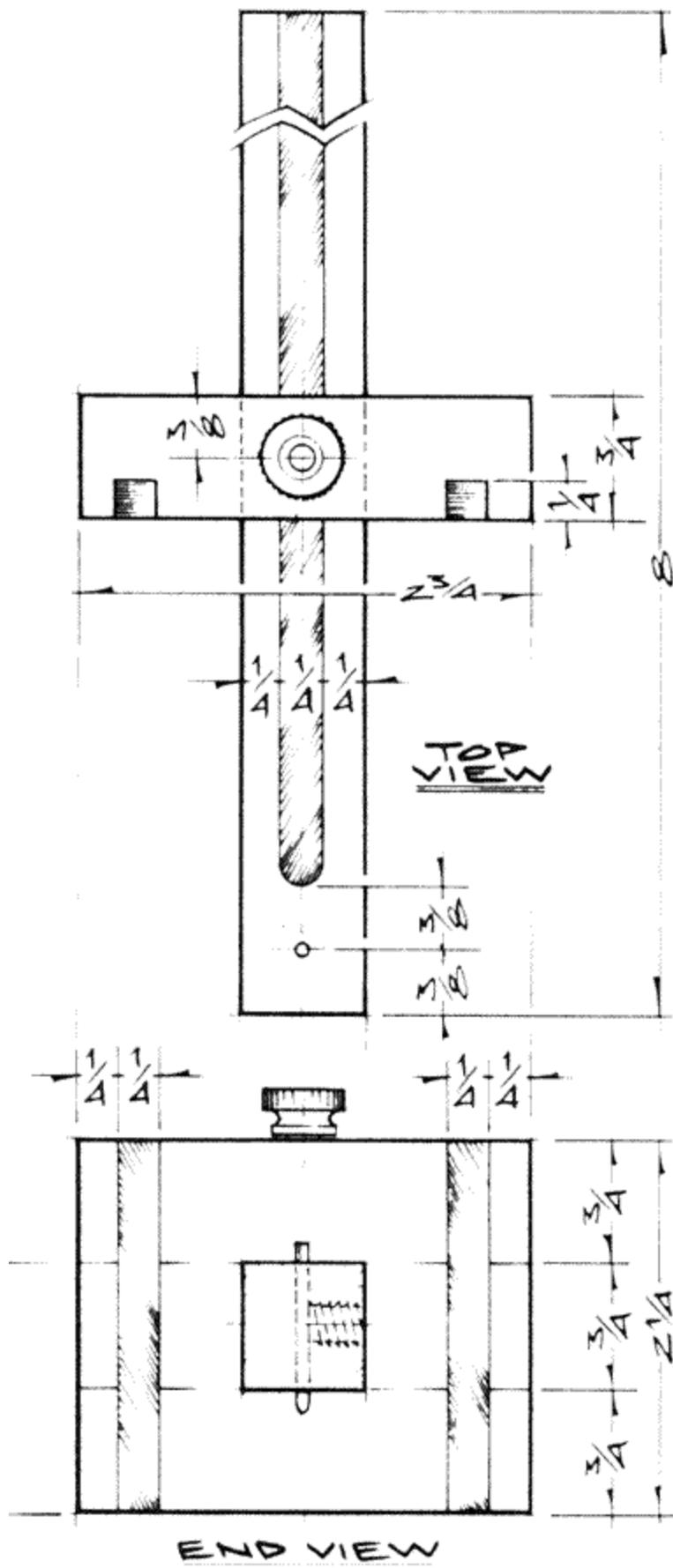


## **Project 20175EZ: Marking Gauge**

*We checked many of the leading fine tool catalogs and found that marking gauges similar to this one are priced into the \$30 to \$50 range. Our gauge is crafted of hard maple and features 1/4" square solid brass inlays. It is a handsome tool, and one that will stand up to a lifetime of hard use.*

# Marking Gauge Complete Schematic





# Marking Gauge Step-by-Step Instructions

1. Select 3/4" square material to make all the wood parts.
2. Make the 8" long arm section.
3. Glue up the four pieces that comprise the collar around a waxed 3/4" square block, as shown.
4. Equip the router with a 1/4" straight bit (see illustration).
5. Use the router to cut the 1/4" square grooves in the arm and the collar that accept the brass inlays.
6. Round the arm inlay end to match the routed groove end.
7. Epoxy the brass inlays into their respective grooves.
8. Drill 1/4" diameter holes in the arm and collar to accept the 8-32 threaded inserts.
9. Drill a 3/32" diameter hole through the arm as shown to accept the scribe.
10. Make the scribe from an old 3/32" drill bit.
11. Insert the arm threaded insert to within a hair of the 3/32" scribe.
12. File down the threaded insert as it will protrude slightly because the scribe hole is drilled through the center of the 3/4" arm.
13. Fasten the scribe in place with an 8-32 stainless steel set screw.
14. Hacksaw the head off of an 8-32 brass screw.
15. Epoxy an 8-32 knurled knot onto the 1-1/8" long section of the screw.
16. Add the 8-32 brass knurled nut, the 8-32 threaded inerts, the 8-32 stainless steel set screw, and a 12" length of 1/4" square brass bar stock.

*When using the marking gauge, note the bevel direction on the scribe. The alignment with the bevel facing in helps force the collar up tight against the board edge as you draw the gauge along.*

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